

Amendments to Claims

Please amend claims 44, 50, 51, 56, 62 and 65-67 as follows:

1-43 (Canceled).

44. (Currently amended) A surgical drain system for draining fluid from a patient's body comprising:

an elongated conduit configured to be implanted in and to drain fluid from a patient's body cavity, the elongated conduit including a first outer surface and a second outer surface;

a first sensing system configured to detect spectral energy from tissue within said patient's body proximate to the first outer surface;

a processing system in communication with the first sensing system configured to determine a color ~~value representative of based on the detected~~ spectral energy from the tissue proximate to the first outer surface; and

a display configured to depict ~~a the representative color, representative of tissue proximate to the first outer surface.~~

45. (Original) The system of claim 44, further comprising: a second sensing system configured to detect spectral energy from tissue proximate to the second outer surface; a processing system in communication with the second sensing system configured to determine a color value based on the spectral energy; and a display configured to depict a color representative of the tissue proximate to the second outer surface.

46. (Original) The system of claim 45, wherein the processing system is configured to compare a difference between the spectral energy detected by the first sensing system and the second sensing system.

47. (Currently amended) The system of claim ~~44-45~~, further including third sensing system configured to sense a physiological parameter different than the first sensing system.

48. (Original) The system of claim 47, wherein the physiological property is selected from the group comprising: temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.

49. (Original) The system of claim 44, further comprising a transmitting element configured to deliver energy to the tissue proximate to the first surface.

50. (Currently amended) The system of claim ~~44-49~~, wherein at least portions of the first sensing system and transmitting element are embedded within the conduit behind optically transparent material.

51. (Currently amended) The surgical drain of claim 44, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the patient's body cavity and comprising a plurality of drain holes spaced along substantially the entire length of the drain portion.

52. (Original) The surgical drain of claim 44, wherein the first sensing system includes a component that is affixed to the conduit.

53. (Original) The surgical drain of claim 44, wherein the component is embedded in the conduit.

54. (Original) The surgical drain of claim 44, wherein the component includes a sensor.

55. (Original) The surgical drain of claim 44, wherein the component includes an optical fiber.

56. (Currently amended) A surgical drain system for draining fluid from a patient's body comprising:

an elongated conduit configured to be implanted in and to drain fluid from a patient's body-cavity, the elongated conduit including a first outer surface and a second outer surface;

a first sensing system configured to ~~configured to~~ detect spectral energy from tissue within said patient's body proximate to the first outer surface;

a processing system in communication with the first sensing system configured to determine a numerical color value of the detected spectral energy; and

a display configured to depict a the numerical color value representative of tissue proximate to the first outer surface.

57. (Original) The system of claim 56, further comprising: a second sensing system configured to detect spectral energy from tissue proximate to the second outer surface; a processing system in communication with the second sensing system configured to determine a numerical color value based on the spectral energy; and a display configured to depict a numerical color value representative of the tissue proximate to the second outer surface.

58. (Original) The system of claim 56, wherein the processing system is configured to compare a difference between the spectral energy detected by the first sensing system and the second sensing system.

59. (Original) The system of claim 56, further including third sensing system configured to sense a physiological parameter different than the first sensing system.

60. (Original) The system of claim 59, wherein the physiological property is selected from the group comprising: temperature, pH, NADH levels, biochemical

composition, drug concentration, turgidity or pressure.

61. (Original) The system of claim 56, further comprising a transmitting element configured to deliver energy to the tissue proximate to the first surface.

62. (Currently amended) The system of claim ~~56~~61, wherein at least portions of the first sensing system and transmitting element are embedded within the conduit behind optically transparent material.

63. (Original) The surgical drain of claim 56, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and comprising a plurality of drain holes spaced along substantially the entire length of the drain portion.

64. (Original) The surgical drain of claim 56, wherein the first sensing system includes a component that is affixed to the conduit.

65. (Currently amended) The surgical drain of claim~~56~~ 64, wherein the component is embedded in the conduit.

66. (Currently amended) The surgical drain of claim~~56~~ 64, wherein the component includes a sensor.

67. (Currently amended) The surgical drain of claim~~56~~ 64, wherein the component includes an optical fiber.